EXHIBIT Z

HISTION

Accession Log DOC010

Study Number	H16-008

Accession #	Animal #	Group #	Description
16-008- 1	157162		Paraffin
16-008- 2	157164		Paraffin
16-008- 3	157166		Paraffin
16-008- 4	157170		Paraffin
16-008- 5	157172		Paraffin
16-008- 6	157174		Paraffin
16-008- 7	157178		Paraffin
16-008- 8	157180		Paraffin
16-008- 9	157182		Paraffin
16-008- 10	157186		Paraffin
16-008- 11	157188		Paraffin
16-008- 12	157190		Paraffin
16-008- 13	157194		Paraffin
16-008- 14	157198		Paraffin
16-008- 15	157232		Paraffin
16-008- 16	157234		Paraffin
16-008- 17	157236		Paraffin
16-008- 18	157880		Paraffin
16-008- 19	157884		Paraffin
16-008- 20	157895		Paraffin
16-008- 21	157899		Paraffin
16-008- 22	157903		Paraffin
16-008- 23	159703		Paraffin
16-008- 24	159704		Technovit
16-008- 25	157163		Technovit
16-008- 26	157165		Technovit
16-008- 27	157167		Technovit
16-008- 28	157169		Technovit
16-008- 29	157171		Technovit
16-008- 30	157173		Technovit
16-008- 31	157175		Technovit
16-008- 32	157177		Technovit
16-008- 33	157179		Technovit
16-008- 34	157181		Technovit
16-008- 35	157183		Technovit
16-008- 36	157185		Technovit
16-008- 37	157187		Technovit
16-008- 38	157189		Technovit
16-008- 39	157191		Technovit
16-008- 40	157193		Technovit
16-008- 41	157195		Technovit
16-008- 42	157199		Technovit
16-008- 43	157201		Technovit
16-008- 44	157233		Technovit
16-008- 45	157235		Technovit
16-008- 46	157237		Technovit
16-008- 47	Rabbit Skin		Paraffi
16-008- 48	Rabbit Skin		Technovit

Checked By: [signature] Date: 3/10/16

HISTION

Histology Grossing Log

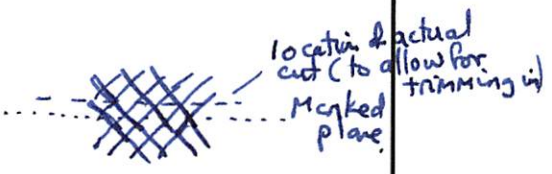
DOC005

Study Number	H16-008
Specimen Type	Mesh
Grossing SOP/SSP	N/A

Description of grossing method

Specimens cut along lines marked on attached photographs; allowing for trimming in to plane of section (see drawing) and to prevent unravelling.

Drawing



After grossing, specimens transferred to:

ID	A	B	C
Dissector	JCT		
Date	3/10/16		

Enter the name of the dissector and the date for each grossing day. When tissue grossing complete, enter the ID letter in the Done box. If there are no observations, enter N/A.

Specimen #	Done?	Observations/comments/deviations	Block IDs
16-008- 1	A	N/A	
16-008- 2	A	N/A	
16-008- 3	A	N/A	
16-008- 4	A	N/A	
16-008- 5	A	N/A	
16-008- 6	A	N/A	
16-008- 7	A	N/A	
16-008- 8	A	N/A	
16-008- 9	A	N/A	
16-008- 10	A	N/A	
16-008- 11	A	N/A	
16-008- 12	A	N/A	
16-008- 13	A	N/A	
16-008- 14	A	N/A	
16-008- 15	A	N/A	
16-008- 16	A	Lost specimen when trimming - processed other half JCT *	
16-008- 17	A	N/A	
16-008- 18	A	N/A	
16-008- 19	A	N/A	
16-008- 20	A	N/A	
16-008- 21	A	N/A	
16-008- 22	A	N/A	
16-008- 23	A	N/A	
16-008- 24	A	N/A	
16-008- 25	A	N/A	
16-008- 26	A	N/A	
16-008- 27	A	N/A	
16-008- 28	A	N/A	
16-008- 29	A	N/A	
16-008- 30	A	N/A	
16-008- 31	A	N/A	
16-008- 32	A	N/A	
16-008- 33	A	N/A	
16-008- 34	A	N/A	

* other piece (lost piece) found and returned to original package unprocessed JCT 3/13/16

HISTION

Histology Grossing Log DOC005

Study Number	H16-008
Specimen Type	Mesh
Grossing SOP/SSP	

Specimen #	Done?	Observations/comments/deviations	Block IDs
16-008- 35	A		
16-008- 36	A		
16-008- 37	A		
16-008- 38	A		
16-008- 39	A		
16-008- 40	A		
16-008- 41	A		
16-008- 42	A		
16-008- 43	A		
16-008- 44	A		
16-008- 45	A		
16-008- 46	A		

HISTION

Processing Log

DOC033

Study Number	H16-008
Specimen Type	Mesh
Embedded In	Paraffin

Specimen Numbers

16-008--1	16-008--17	-	-	-	-	-
16-008--2	16-008--18	-	-	-	-	-
16-008--3	16-008--19	-	-	-	-	-
16-008--4	16-008--20	-	-	-	-	-
16-008--5	16-008--21	-	-	-	-	-
16-008--6	16-008--22	-	-	-	-	-
16-008--7	16-008--23	-	-	-	-	-
16-008--8	16-008-47	-	-	-	-	-
16-008--9	-	-	-	-	-	-
16-008--10	-	-	-	-	-	-
16-008--11	-	-	-	-	-	-
16-008--12	-	-	-	-	-	-
16-008--13	-	-	-	-	-	-
16-008--14	-	-	-	-	-	-
16-008--15	-	-	-	-	-	-
16-008--16	-	-	-	-	-	-

If processing using an automated tissue processor enter the run information in the table below.

Processing		Initial
EQP#	HIST035	
SOP#	Protocol	
Date Started	3/10/16	
Date Finished	3/11/16	

Paraffin Embedding	
EQP	HIST173
Reagent	15-118
Date	3/11/16
Initial	

If processing manually enter the run information in the table below.

Duration = minimum required incubation time. *Enter time when incubation steps are less than one day*

Manual Processing Steps

Step #	Reagent Name	Duration	Reagent #	Date	Time (optional)	Initial
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						

HISTION

Processing Log

DOC033

Study Number	H16-008
Specimen Type	Mesh
Embedded In	Technovit

Specimen Numbers

16-008--24	16-008--40	-	-	-	-	-
16-008--25	16-008--41	-	-	-	-	-
16-008--26	16-008--42	-	-	-	-	-
16-008--27	16-008--43	-	-	-	-	-
16-008--28	16-008--44	-	-	-	-	-
16-008--29	16-008--45	-	-	-	-	-
16-008--30	16-008--46	-	-	-	-	-
16-008--31	-	-	-	-	-	-
16-008--32	-	-	-	-	-	-
16-008--33	-	-	-	-	-	-
16-008--34	-	-	-	-	-	-
16-008--35	-	-	-	-	-	-
16-008--36	-	-	-	-	-	-
16-008--37	-	-	-	-	-	-
16-008--38	-	-	-	-	-	-
16-008--39	-	-	-	-	-	-

If processing using an automated tissue processor enter the run information in the table below.

Processing		Initial
EQP#	HISTO35	
SOP#	Protocol	
Date Started	3/10/16	
Date Finished	3/10/16	

Paraffin Embedding	
EQP	
Reagent	
Date	
Initial	

If processing manually enter the run information in the table below.

Duration = minimum required incubation time. *Enter time when incubation steps are less than one day*

Manual Processing Steps

Step #	Reagent Name	Duration	Reagent #	Date	Time (optional)	Initial
1	Technovit 7200	3hrs	16-039	3/10/16	10pm	
2	Technovit 7200	3 hrs	16-039	3/11/16	1 am	
3	Technovit 7200	3hrs	16-039	3/11/16	4am	
4	Polymerization	4hrs/10hrs	—	3/11/16	10am	
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						

Histology Grinding Log

DOC017

Study Number	H16-008
Specimen Type	Mesh
Embedded In	Technovit

Thickness measured with	HIST049
Sections Cut with	HIST109
Sections ground with	HIST139

Values in grey columns are calculated: Glue thickness= Sandwich-(slide+block). Final thickness= Section thickness-Glue thickness

Number	Date cut	Slide Thickness (mm)		Block Thickness (mm)		Sandwich Thickness (mm)		Glue Thickness (µm)		Section Thickness (µm)		Final Thickness (µm)		OK?
16-008--24	A	1.412	A	13.915	A	15.340	A	13	B	79	B	66	B	S
16-008--25	A	1.426	A	13.642	A	15.086	A	18	A	36	A	18	A	S
16-008--26	A	1.424	A	11.339	A	12.791	A	28	A	67	A	39	A	S
16-008--27	A	1.433	A	13.947	A	15.390	A	10	B	34	B	24	B	S
16-008--28	A	1.448	A	13.967	A	15.441	A	26	A	68	A	42	B	S
16-008--29	A	1.402	A	13.953	A	15.369	A	14	B	53	B	39	B	S
16-008--30	A	1.439	A	13.735	A	15.192	A	18	B	40	B	22	B	S
16-008--31	A	1.440	A	13.816	A	15.276	A	20	A	36	A	16	B	S
16-008--3~~2~~5*	A	1.443	A	15.905	A	17.359	A	11	B	45	B	34	B	S
16-008--33	A	1.434	A	13.621	A	15.068	A	13	A	44	A	31	A	S
16-008--34	A	1.429	A	14.021	A	15.459	A	9	A	47	A	38	A	S
16-008--3~~5~~2*	A	1.433	A	13.823	A	15.267	A	11	A	55	A	44	A	S
16-008--36	A	1.428	A	15.969	A	17.411	A	14	A	42	A	28	A	S
16-008--37	A	1.426	A	13.795	A	15.236	A	15	A	GROUND AWAY! NA [initials]				3/13/16
16-008--38	A	1.433	A	15.883	A	17.322	A	6	A	50	A	44	B	S
16-008--39	A	1.447	A	13.936	A	15.386	A	3	B	24	B	21	B	S
16-008--40	A	1.443	A	14.769	A	16.214	A	2	B	47	B	45	B	S
16-008--41	A	1.450	A	15.461	A	16.917	A	6	B	45	B	39	B	S
16-008--42	A	1.448	A	14.034	A	15.492	A	10	B	37	B	27	B	S
16-008--43	A	1.437	A	11.051	A	12.495	A	7	B	21	B	14	B	S
16-008--44	A	1.431	A	8.212	A	9.649	A	6	B	44	B	38	B	S
16-008--45	A	1.434	A	8.711	A	10.143	A	-2	A	21	A	NA	A	X
16-008--46	A	1.434	A	8.237	A	9.683	A	12	B	51	B	39	B	S
16-008-48	A	1.438	A	5.930	A	7.398	A	30	Too Thin! Recut. [initials] 3/13/16					
16-008-48 2	A	1.435	A	4832	A	6.299	A	32	A	58	A	26	A	S
16-008-37 2	A	1.439	A	11.273	A	12.725	A	13	B	42	B	29	B	S
16-008-45 2	A	1.422	A	7.953	A	9.383	A	8	A	45	A	37	A	S
16-008-24-2	B	1.434	B	13.256	B	14.700	B	10	B	50	B	40	B	S
-														
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Letter	A	B	C	D	E	F	G	H	I	J
Initial	[initials]	[initials]								
Date	3/13/16	3/14/16								

Stain	H+E						
Initial	3/14/16						
Date	[initials]						

* Slide + block thicknesses entered in wrong location on form. Numbers switched to correct record at time. Explanation added in review [initials] 5/12/16

Histology Grinding Log

DOC017

Study Number	H16-008
Specimen Type	Mesh
Embedded In	Technovit

Thickness measured with	HIST049
Sections Cut with	HIST109
Sections ground with	HIST139

Values in grey columns are calculated: Glue thickness= Sandwich-(slide+block). Final thickness= Section thickness-Glue thickness

Number	Date cut	Slide Thickness (mm)		Block Thickness (mm)		Sandwich Thickness (mm)		Glue Thickness (µm)		Section Thickness (µm)		Final Thickness (µm)		OK?
16-008--24	A	1.451	A	12.572	A	14.041	A	18	A	54	B	36	B	✓
16-008--25	A	1.452	A	12.943	A	14.413	A	18	A	32	B	14	B	✓
16-008--26	A	1.442	A	10.687	A	12.143	A	14	A	57	B	33	B	✓
16-008--27	A	1.431	A	13.303	A	14.747	A	13	A	27	B	14	B	✓
16-008--28	A	1.439	A	13.319	A	14.768	A	10	A	63	B	53	B	✓
16-008--~~25~~ 30 *	A	1.454	A	13.062	A	14.530	A	14	A	61	B	47	B	✓
16-008--~~30~~ 29 *	A	1.419	A	13.302	A	14.[illegible]	A	21	A	31	B	10	B	✓
16-008--31	A	1.439	A	13.154	A	14.[illegible]	A	23	A	84	B	61	B	✓
16-008--32	A	1.442	A	13.203	A	14.642	A	~3	A	55	B	35	B	✓
16-008--33	A	1.442	A	12.956	A	14.419	A	21	A	33	B	12	B	✓
16-008--34	A	1.440	A	13.309	A	14.774	A	25	A	57	B	32	B	✓
16-008--35	A	1.431	A	15.267	A	16.722	A	24	A	41	B	17	B	✓
16-008--36	A	1.432	A	15.263	A	16.717	A	22	A	43	B	21	B	✓
16-008--37	A	1.430	A	10.604	A	12.056	A	22	A	58	B	36	B	✓
16-008--38	A	1.453	A	15.208	A	16.682	A	21	A	53	B	32	B	✓
16-008--39	A	1.452	A	13.266	A	14.749	A	31	A	57	B	26	B	✓
16-008--40	A	1.437	A	14.055	A	15.513	A	21	A	52	B	31	B	✓
16-008--41	A	1.452	A	14.818	A	16.297	A	27	A	43	B	16	B	✓
16-008--42	A	1.443	A	13.371	A	14.844	A	30	A	80	B	50	B	✓
16-008--43	A	1.453	A	10.397	A	11.864	A	14	A	31	B	17	B	✓
16-008--44	A	1.436	A	7.576	A	9.025	A	13	A	43	B	30	B	✓
16-008--45	A	1.454	A	7.218	A	8.686	A	14	A	37	B	23	B	✓
16-008--46	A	1.438	A	7.571	A	9.031	A	22	A	78	B	56	B	✓
16-008-483	A	1.454	A	4.104	A	5.583	A	25	A	50	B	25	B	✓

Letter	A	B	C	D	E	F	G	H	I	J
Initial	[illegible]	[illegible]								
Date	3/14/16	3/15/16								

Stain	H+E	H+E						
Initial	[illegible]	[illegible]						
Date	3/14/16	3/15/16						

3/15/16

* Slide+Block thickness data entered in wrong location on form. Numbers corrected to accurately reflect data contemporaneously. Explanation of correction added in review [illegible] 5/12/16

HISTION

Staining Log

DOC008

Date	3/14/16
Initial	

QC date	3/14/16
Initial	

Slide#		QC	Slide#		QC	Slide#		QC	Slide#		QC
16-008-24		S	16-008-36		S						
16-008-25		S	16-008-37		S						
16-008-26		S	16-008-38		S						
16-008-27		S	16-008-39		S						
16-008-28		S	16-008-40		S						
16-008-29		S	16-008-41		S						
16-008-30		S	16-008-42		S						
16-008-31		S	16-008-43		S						
16-008-32		S	16-008-45		S						
16-008-33		S	16-008-46		S						
16-008-34		S	16-008-48		S						
16-008-35		S	~~16-008-~~ written in error								

QC Codes

✓	Pass	K	Knife marks	T	Tissue missing	S	Stain Quality
×	Fail	D	Deeper	F	Fiber	µ	Thickness
W	Wrinkle/fold	C	Chatter	P	Pickup		
R	Recut	H	Trimming Holes	B	Bubbles		

→ Technovit plastic surrounding specimens stained too dark ε eosin 3/14/16

Stain	H+E		SOP#	Protocol	Revision #	N/A
Manual	✓	Autostainer	·	EQP#	N/A	

If staining manually, please fill in the table below. If using the autostainer attach the process record to this sheet.

Record time in minutes. To indicate seconds use "s", hours use "hr".

	Reagent Name	Reagent #	Time	Comment	Timer Done?
1	100% Alcohol	16-047	30s		✓
2	Distilled water	~~15-161~~ 3/14/16	1		✓
3	Harris Haematoxylin	15-161	10mins		✓
4	Distilled water	~~R16-043~~ 3/14/16			✓
5	1% Acid alcohol	R16-043	30s		✓
6	Tapwater	—	1		✓
7	0.25% NH_4OH	R16-056	1		✓
8	Tapwater	—	1		✓
9	1% Aqueous Eosin	R15-300	1		✓
10	Distilled water	—	30s		✓
11	Blot + Air dry	—	—		✓
12	Mount in Technovit 7200 VLC	16-040	—		✓
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					

HISTION

Staining Log

DOC008

Date	3/15/16
Initial	

QC date	3/15/16
Initial	

Slide#		QC	Slide#		QC	Slide#		QC	Slide#		QC
16-008-24		✓	16-008-36		✓						
16-008-25		✓	16-008-37		✓						
16-008-26		✓	16-008-38		✓						
16-008-27		✓	16-008-39		✓						
16-008-28		✓	16-008-40		✓						
16-008-29		✓	16-008-41		✓						
16-008-30		✓	16-008-42		✓						
16-008-31		✓	16-008-43		✓						
16-008-32		✓	16-008-44		✓						
16-008-33		✓	16-008-45		✓						
16-008-34		✓	16-008-46		✓						
16-008 35		✓									

QC Codes

✓	Pass	K	Knife marks	T	Tissue missing	S	Stain Quality
x	Fail	D	Deeper	F	Fiber	µ	Thickness
W	Wrinkle/fold	C	Chatter	P	Pickup		
R	Recut	H	Trimming Holes	B	Bubbles		

Stain	H+E	SOP#	Protocol.	Revision #	N/A
Manual	✓	Autostainer		EQP#	N/A

If staining manually, please fill in the table below. If using the autostainer attach the process record to this sheet.

Record time in minutes. To indicate seconds use "s", hours use "hr".

	Reagent Name	Reagent #	Time	Comment	Timer Done?
1	Distilled Water	—	1 min		✓
2	Harris Haematoxylin	15-161	4hrs.	Checked microscopically @ 15 minintervals	✓
3	Distilled water	—	1		✓
4	1% Acid alcohol	R16-043	30s		✓
5	Tapwater	—	1		✓
6	0.25% NH_4OH	R16 056	1		✓
7	Tapwater	—	1		✓
8	1% Eosin.	R15-300	1		✓
9	Distilled water	—	30s		✓
10	Blot + air dry	—	—		✓
11	Technovit 7200 VLC	16-040			✓
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					

HISTION

Sectioning & Staining Assignment Log

DOC007

Study Number	H16-008
Specimen Type	Mesh
Embedded In	Paraffin

Use the letters in the following table to identify the user for each day of sectioning

ID	A	B	C	D	E	F	G	H	I
Date	3/11/16								
Equipment	HST099								
Initial	[signature]								
Thickness (µm)	5								

ID	J	K	L	M	N	O	P	Q	R
Date									
Equipment									
Initial									
Thickness (µm)									

ID	S	T	U	V	W	X	Y	Z	AA
Date									
Equipment									
Initial									
Thickness (µm)									

ID	BB	CC	DD	EE	FF	GG	HH	II	JJ
Date									
Equipment									
Initial									
Thickness (µm)									

Staining Procedure Table

Record the date of each staining event in the table below before completing the staining log.

Stain	H+E				
Initial	[signature]				
Date	3/12/16				
Stain					
Initial					
Date					
Stain					
Initial					
Date					
Stain					
Initial					
Date					
Stain					
Initial					
Date					
Stain					
Initial					
Date					

HISTION

Histology Sectioning Log

DOC007

Study Number	H16-008
Specimen Type	Mesh
Embedded In	Paraffin

Enter the target distance between levels (if applicable) in the following table

Level	1-2	2-3	3-4	4-5		
Spacing (µm)						

Enter the level number (if applicable), sectioning ID letter and number of sections cut in the following table

Level ID																						
Specimen	**ID**	**#**	**ID**	**#**	**ID**	**#**	**ID**	**#**	**ID**	**#**	**ID**	**#**	**ID**	**#**	**ID**	**#**	**ID**	**#**	**ID**	**#**	**ID**	**#**
16-008--1	A	2																				
16-008--2	A	2																				
16-008--3	A	2																				
16-008--4	A	2																				
16-008--5	A	2																				
16-008--6	A	2																				
16-008--7	A	2																				
16-008--8	A	2																				
16-008--9	A	2																				
16-008--10	A	2																				
16-008--11	A	2																				
16-008--12	A	2																				
16-008--13	A	2																				
16-008--14	A	2																				
16-008--15	A	2																				
16-008--16	A	2																				
16-008--17	A	2																				
16-008--18	A	2																				
16-008--19	A	2																				
16-008--20	A	2																				
16-008--21	A	2																				
16-008--22	A	2																				
16-008--23	A	2																				
16-008-47	A	2																				
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HISTION

Staining Log

DOC008

Date	3/12/16
Initial	

QC date	3/12/16
Initial	

Slide#		QC	Slide#		QC	Slide#		QC	Slide#		QC
16-008-2	A	X	16-008-6	A	X						
16-008-8	A	X	16-008-7	A	X						
16-008-1	A	X	16-008-9	A	X						
16-008-3	A	X	16-008-10	A	X						
16-008-20	A	X	16-008-11	A	X						
16-008-21	A	X	16-008-12	A	X						
16-008-18	A	X	16-008-13	A	X						
16-008-22	A	X	16-008-14	A	X						
16-008-17	A	X									
16-008-23	A	X									
16-008-4	A	X									
16-008-5	A	X									

QC Codes

All slides failed QC - Due to overstaining of Eosin 3/12/16

✓	Pass	K	Knife marks	T	Tissue missing	S	Stain Quality — Too Dark 3/12/16
x	Fail	D	Deeper	F	Fiber	µ	Thickness
W	Wrinkle/fold	C	Chatter	P	Pickup		
R	Recut	H	Trimming Holes	B	Bubbles		

Stain	H+E	SOP#	Per Protocol	Revision #	
Manual		Autostainer	✓	EQP#	HIST100

If staining manually, please fill in the table below. If using the autostainer attach the process record to this sheet.

Record time in minutes. To indicate seconds use "s", hours use "hr".

	Reagent Name	Reagent #	Time	Comment	Timer Done?
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					

Process Report

Exported Date: 2016-03-12 10:50:27

Start:2016-03-12 10:03:50
End :2016-03-12 10:50:03

Program Name: he expo no 70
Specimen No : 1

Step	Station	Solution	Time	Result	Delay	Mix
1	S*	Start Station	--:--:--	00:00:15		
2	D*	Drying Station	00:10:00	00:10:00	**	OFF
3	3	Xylene	00:03:00	00:03:00	**	ON
4	5	Xylene	00:02:00	00:02:00	**	ON
5	6	Xylene	00:02:00	00:02:00	**	ON
6	17	Alcohol 100%	00:01:00	00:01:00	**	ON
7	15	Alcohol 100%	00:01:00	00:01:00	**	ON
8	31	Alcohol 95%	00:01:00	00:01:00	**	ON
9	W*	Wash Station	00:01:00	00:01:00	**	ON
10	22	Hematoxylin(Harris)	00:10:00	00:10:00	==	ON
11	W*	Wash Station	00:01:00	00:01:00	==	ON
12	23	Acid Alcohol	00:00:30	00:00:30	==	ON
13	W*	Wash Station	00:02:00	00:02:00	==	ON
14	24	Ammonia Water	00:01:00	00:01:17*	==	ON
15	W*	Wash Station	00:01:00	00:01:00	**	ON
16	26	Eosin	00:02:00	00:02:00	==	ON
17	16	Alcohol 100%	00:01:00	00:01:00	==	ON
18	18	Alcohol 100%	00:01:00	00:01:00	==	ON
19	19	Alcohol 100%	00:01:00	00:01:00	==	ON
20	6	Xylene	00:01:00	00:01:00	==	ON
21	5	Xylene	00:01:00	00:01:00	==	ON
22	E*	End Station	--:--:--	00:00:23		

Executed Diagnose

Step	Date		Description
13	2016-03-12	10:39:25	A deviation error occurred with the Z axis.
14	2016-03-12	10:40:18	Continue the process.

* Lid left on container- causing Z axis crash. Removed lid, placed slides in correct reagent and followed on-screen instructions. Slides spent 17 s extra in ammonia water. This had no effect on staining quality. 31/2/16

HISTION

Staining Log

DOC008

Date	3/12/16
Initial	

QC date	3/12/16
Initial	

Slide#		QC	Slide#		QC	Slide#		QC	Slide#		QC
16-008-16	A	S									
16-008-15	A	S									
16-008-19	A	S									
16-008-17	A	S									

QC Codes

✓	Pass	K	Knife marks	T	Tissue missing	S	Stain Quality — Too Dark.
x	Fail	D	Deeper	F	Fiber	µ	Thickness
W	Wrinkle/fold	C	Chatter	P	Pickup		
R	Recut	H	Trimming Holes	B	Bubbles		

Stain		SOP#	Per Protocol	Revision #	
Manual		Autostainer	✓	EQP#	HIST 100

If staining manually, please fill in the table below. If using the autostainer attach the process record to this sheet.

Record time in minutes. To indicate seconds use "s", hours use "hr".

Timer

	Reagent Name	Reagent #	Time	Comment	Done?
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
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21					
22					
23					
24					
25					
26					
27					

---------- Process Report ----------
Exported Date: 2016-03-12 11:09:33

Start:2016-03-12 10:03:50
End :2016-03-12 11:05:14

Program Name: he expo no 70
Specimen No : 2

Step	Station	Solution	Time	Result	Delay	Mix
1	S*	Start Station	--:--:--	00:00:31		
2	D*	Drying Station	00:10:00	00:13:11	**	OFF
3	3	Xylene	00:03:00	00:03:00	**	ON
4	5	Xylene	00:02:00	00:02:00	**	ON
5	6	Xylene	00:02:00	00:02:05	**	ON
6	17	Alcohol 100%	00:01:00	00:01:00	**	ON
7	15	Alcohol 100%	00:01:00	00:01:00	**	ON
8	31	Alcohol 95%	00:01:00	00:13:44	**	ON
9	W*	Wash Station	00:01:00	00:01:00	**	ON
10	22	Hematoxylin(Harris)	00:10:00	00:10:00	==	ON
11	W*	Wash Station	00:01:00	00:01:00	==	ON
12	23	Acid Alcohol	00:00:30	00:00:30	==	ON
13	W*	Wash Station	00:02:00	00:02:00	==	ON
14	24	Ammonia Water	00:01:00	00:01:00	==	ON
15	W*	Wash Station	00:01:00	00:01:00	**	ON
16	26	Eosin	00:02:00	00:02:00	==	ON
17	16	Alcohol 100%	00:01:00	00:01:00	==	ON
18	18	Alcohol 100%	00:01:00	00:01:00	==	ON
19	19	Alcohol 100%	00:01:00	00:01:00	==	ON
20	6	Xylene	00:01:00	00:01:00	==	ON
21	5	Xylene	00:01:00	00:01:00	==	ON
22	E*	End Station	--:--:--	00:04:18		

---------- Executed Diagnose ----------

Step	Date		Description
8	2016-03-12	10:39:25	A deviation error occurred with the Z axis.
8	2016-03-12	10:40:18	Continue the process.

Z axis crash did not affect this set of slides JBT 3/12/16

---------- Stain Program List ----------

Exported Date: 2016-03-12 09:43:57
Created Date : 2015-08-10 16:48:23
Revised Date : 2016-03-12 09:42:12

Program Name:he expo no 70

Step	Station	Solution	Time	Delay	Mix
1	S*	Start Station	--:--:--		
2	D*	Drying Station	00:10:00	**	OFF
3	3	Xylene	00:03:00	**	ON
4	5	Xylene	00:02:00	**	ON
5	6	Xylene	00:02:00	**	ON
6	17	Alcohol 100%	00:01:00	**	ON
7	15	Alcohol 100%	00:01:00	**	ON
8	31	Alcohol 95%	00:01:00	**	ON
9	W*	Wash Station	00:01:00	**	ON
10	22	Hematoxylin(Harris)	00:10:00	==	ON
11	W*	Wash Station	00:01:00	==	ON
12	23	Acid Alcohol	00:00:30	==	ON
13	W*	Wash Station	00:02:00	==	ON
14	24	Ammonia Water	00:01:00	==	ON
15	W*	Wash Station	00:01:00	**	ON
16	26	Eosin	00:02:00	==	ON
17	16	Alcohol 100%	00:01:00	==	ON
18	18	Alcohol 100%	00:01:00	==	ON
19	19	Alcohol 100%	00:01:00	==	ON
20	6	Xylene	00:01:00	==	ON
21	5	Xylene	00:01:00	==	ON
22	E*	End Station	--:--:--		

Total 22 Steps

HISTION Frozen sections - Hand stained

Staining Log

DOC008

Date	3/12/16
Initial	

QC date	10/12/16
Initial	

Slide#		QC	Slide#		QC	Slide#		QC	Slide#		QC
16-008-1		✓	16-008-13		✓	16-008-23		✓			
16-008-2		✓	16-008-14		✓						
16-008-3		✓	16-008-15		✓						
16-008-4		✓	16-008-16		✓						
16-008-5		✓	16-008-17		✓						
16-008-6		✓	16-008-18		✓						
16-008-7		✓	16-008-19		✓						
16-008-8		✓	16-008-47		✓						
16-008-9		✓	RACK 2.								
16-008-10		✓	16-008-20		✓						
16-008-11		✓	16-008-21		✓						
16-008-12		✓	16-008-22		✓						

QC Codes

✓	Pass	K	Knife marks	T	Tissue missing	S	Stain Quality
×	Fail	D	Deeper	F	Fiber	µ	Thickness
W	Wrinkle/fold	C	Chatter	P	Pickup		
R	Recut	H	Trimming Holes	B	Bubbles		

Stain	H+E	SOP#	Per Protocol.	Revision #	
Manual	✓	Autostainer		EQP#	N/A

If staining manually, please fill in the table below. If using the autostainer attach the process record to this sheet.

Record time in minutes. To indicate seconds use "s", hours use "hr".

	Reagent Name	Reagent #	Time	Comment	Timer Done? 1	2
1	Xylenes	16-005	3		✓	✓
2	Xylenes	16-005	~~3~~ 2		✓	✓
3	Xylenes	16-005	2		✓	✓
4	100% Alcohol	16-047	1		✓	✓
5	100% Alcohol	16-047	1		✓	✓
6	95% Alcohol	R16-042	1		✓	✓
7	Distilled water.	–	1		✓	✓
8	Harris Haematoxylin	15-161	10		✓	✓
9	Tapwater	–	1		✓	✓
10	Acid Alcohol	R16-043	30s		✓	✓
11	Tapwater	–	2		✓	✓
12	0.25% NH_4OH	R16-056	1		✓	✓
13	Tapwater	–	1		✓	✓
14	1% Eosin	R15-300	2		✓	✓
15	Tapwater	–		20s - Microscope diffe	✓	✓
16	70% Alcohol	R16-040	Rinse		✓	✓
17	100% Alcohol	16-047	1		✓	✓
18	100% Alcohol	16-047	1		✓	✓
19	100% Alcohol	16-047	1		✓	✓
20	Xylenes	16-005	2		✓	✓
21	Xylenes	16-005	2		✓	✓
22	Cuvemount II				✓	✓
23						
24						
25						
26						
27						

3/12/16